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(54) ABRASION-RESISTANT COATING COMPOSITION AND MANUFACTURING METHOD OF COATING

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a water-based coating composition comprising a water-based emulsion bearing at least two functional groups reactive with a carbodiimide group, a polycarbodiimide and an alkoxysilane which either constitutes a part of a polycarbodiimide or is reactive with a polycarbodiimide or is reactive with a water-based emulsion polymer, and an abrasion-resistant coating composition.

SOLUTION: The composition comprises (a) a polycarbodiimide bearing at least two carbodiimide groups, (b) a water-based emulsion polymer and (c) an alkoxysilane, where the water-based emulsion polymer bears at least two functional groups reactive with the carbodiimide group and at least one functional group reactive with the alkoxysilane and the alkoxysilane bears at least one functional group reactive with the water-based emulsion polymer.

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